APPLIANCE ENGINEER—Index for Volumes I & II

This Author and Subject Index is your guide to technical papers published in Volumes I and II of APPLIANCE ENGINEER for calendar years 1967 and 1968. In the Subject Index, individual papers may be listed more than once according to subject matter. Roman and Arabic numerals refer to Volume and Issue numbers respectively. Numbers in parentheses refer to title page numbers. Address all inquiries regarding published papers to APPLIANCE ENGINEER, Dana Chase Publications, Inc., York St. at Park Ave., Elmhurst, Ill. 60126.

AUTHOR INDEX

Bratvold, Harlan R. and Eckardt, R. W.; Underwriters' Laboratories, Inc.; "Safety Considerations in Designing Self-Cleaning Ovens," I, 2.

Brubaker, Richard; Motorola Semiconductor Products Inc.; "A Low Cost All Solid-State FM Stereo Multiplex System," I, 1.

Chapnick, Newton N. and Fagin, Leonard L.; Barnes Engineering Co.; "Infrared Thermography for Diagnostic Evaluation of Electronic Modules," II, 1.

DeToro, N. and Donovan, D. T.; General Electric Co.; "A Multiple Speed Clutch for Automatic Washers," I, 4.

DeWerth, D. W. and Harwood, K. J.; American Gas Association, Inc., Laboratories; "Heat Focusing Methods for Infra-Red Energy from Gas-Fired Burners," I, 4.

Dibble, David B. See Wood, Russell E.

Donovan, D. T. See DeToro, N.

Eckardt, R. W. See Bratvold, Harlan R.

Fagin, Leonard L. See Chapnick, Newton N.

Farquhar, Harold F.; The Lau Blower Co.; "Cabinet Enclosures—Influence on Blower Performance," I, 3.

Gebel, Irving; Controls Company of America; "Air Trap Design for Pressure Switch Liquid Level Control," II, 1.

Graneri, George J.; American Radiator and Standard Sanitary Corp.; "Solid-State Blower Control," I, 2 and "Direct Burner Ignition System," II, 2.

Grant, Edward and Roszyk, Leon M.; Sunbeam Corp.; "Design Considerations for Permanent Magnet Motors," II, 4.

Harwood, K. J. See DeWerth, D. W.

Heilweier, Dr. George H.; RCA Laboratories; "Dynamic Scattering in Liquid Crystals," II, 4.

Henke, Professor R. W.; Fluid Power Society; "Fluidics and Its Potential in Appliance Design," II, 3.

Hoke, L., Lancaster, W., Petrosky, R. and Waring, J.; Philco-Ford Corp.; "Monolithic Circuits for Radio Receivers," I, 4.

Hood, Robert B.; Fairchild Semiconductor; "Combination Timer and Speed Control for a Food Blender," I, 3 and "Appliance Electronic Sequence Control," II, 3.

Knisely, Robert C.; Owens-Illinois Technical Center; "Crystallized Glasses for Appliance Applications," I, 3.

Lancaster, W. See Hoke, L.

Liebermann, John; Ranco Inc. and McLean, John A.; Westinghouse Electric Corp.; "Single-Evaporator Systems for Refrigerator-Freezers," II, 2.

Lorenz, Jerome L. and Patterson, R. K.; Ranco Inc.; "Demand Defrost by Electronics," I, 1.

Marn, William L.; American Gas Association, Inc.; "Reduction of Heat Radiation from Commercial Heavy Duty Ranges," I, 2.

McCullough, John V.; Litton Industries; "Basic Design of Magnetron-Powered Microwave Ovens," I, 1.

McLean, John A. See Liebermann, John.

Morgan, John W. and Richmond, James W.; Sunbeam Corp.; "The Electric Clock is Up-Dated," I, 1.

Mullin, William H.; Philco-Ford Corp.; "Capacity Modulation for Room Air Conditioners," II, 3.

Patterson, R. K. See Lorenz, Jerome L.

Perl, Richard L. See Vonderhaar, A. W.

SUBJECT INDEX

"A Low Cost All Solid-State FM Stereo Multiplex System," I, 1 (24)

"A Multiple Speed Clutch for Automatic Washers," I, 4 (24)

"Air Trap Design for Pressure Switch Liquid Level Control," II, 1 (30)

"Appliance Electronic Sequence Control," II, 3 (18)

"Basic Design of Magnetron-Powered Microwave Ovens," I, 3 (35)

"Cabinet Enclosures—Influence on Blower Performance," I, 3 (34)

"Capacity Modulation for Room Air Conditioners," II, 3 (28)

Central Air Conditioning, I, 2 (24, 32 & 36); I, 3 (18 & 34); I, 4 (28); II, 1 (19); II, 2 (32); II, 3 (18 & 32)

"Combination Timer and Speed Control for a Food Blender," I, 3 (38)

Components, Electronic I, 1 (20, 24 & 35); I, 2 (24, 32 & 36); I, 3 (18 & 28); I, 4 (32); II, 1 (23); II, 2 (32 & 37); II, 3 (18); II, 4 (21 & 44)

Components, Electro-Mechanical I, 1 (28); II, 3 (21); II, 4 (44)

Components, Mechanical II, 3 (32)

Control Systems I, 1 (20); I, 2 (18, 24, 32 & 36); I, 3 (18 & 28); I, 4 (24 & 28); II, 1 (19, 23 & 30); II, 2 (21); II, 3 (18, 28 & 32); II, 4 (44)

"Cross Modulation Problems in Solid-State VHF-TV Tuners," II, 2 (37)

"Crystallized Glasses for Appliance Applications," I, 3 (22)

"Demand Defrost by Electronics," I, 1 (20)

"Design Considerations for Permanent Magnet Motors," II, 4 (27)

Design Techniques I, 1 (24); I, 2 (18, 28 & 32); I, 3 (18, 28 & 34); I, 4 (18, 28 & 32); II, 1 (19, 23, 30 & 34); II, 2 (32 & 37); II, 3 (18, 28 & 32); II, 4 (27, 38 & 44)

"Direct Burner Ignition System," II, 2 (32)

Dishwashers I, 2 (18); I, 3 (18); II, 1 (23 & 30); II, 3 (18 & 32); II, 4 (27)

"Dynamic Scattering in Liquid Crystals," II, 4 (21)

"Economics and Technology Trends for European Refrigerators and Freezers," II, 4 (38)

Electric Heating I, 2 (24); I, 3 (18 & 34); I, 4 (28); II, 1 (23)

Electric Housewares I, 1 (28); I, 3 (22 & 25); II, 1 (23); II, 3 (32); II, 4 (21, 27 & 44)

"Fluidics and Its Potential in Appliance Design," II, 3 (32)

Freezers I, 1 (18); II, 1 (23); II, 2 (21); II, 4 (38)

Gas Heating I, 2 (24); I, 3 (18 & 34); I, 4 (28); II, 1 (23); II, 2 (32)

"Gas Pyrolytic Ovens," II, 2 (27)

"Heat Focusing Methods for Infra-Red Energy from Gas-Fired Burners," I, 4 (18)

Home Laundry I, 2 (18); I, 3 (18); I, 4 (24); II, 1 (19, 23 & 30); II, 2 (32); II, 3 (18 & 32); II, 4 (27)

"Infrared Thermography for Diagnostic Evaluation of Electronic Modules," II, 1 (34)

Materials I, 3 (32); I, 4 (21, 27 & 34); II, 4 (21 & 44)

"Monolithic Circuits for Radio Receivers," I, 4 (32)

"Off-Balance Spin Stability Analysis of an Automatic Washer," II, 1 (19)

Phonographs I, 1 (24); II, 1 (23); II, 4 (44)

"Pneumatic Control System for Appliances," I, 2 (18)

"Portable Power Systems for Today and Tomorrow," II, 4 (44)

"Predict Direct Drive Blower Performance by Superimposing Motor Data," I, 4 (28)

APPLIANCE ENGINEER—Index for Volumes I & II

This Author and Subject Index is your guide to technical papers published in Volumes I and II of APPLIANCE ENGINEER for calendar years 1967 and 1968. In the Subject Index, individual papers may be listed more than once according to subject matter. Roman and Arabic numerals refer to Volume and Issue numbers respectively. Numbers in parentheses refer to title page numbers. Address all inquiries regarding published papers to APPLIANCE ENGINEER, Dana Chase Publications, Inc., York St. at Park Ave., Elmhurst, Ill. 60126.

AUTHOR INDEX

Bratvold, Harlan R. and Eckardt, R. W.; Underwriters' Laboratories, Inc.; "Safety Considerations in Designing Self-Cleaning Ovens," I, 2.

Brubaker, Richard; Motorola Semiconductor Products Inc.; "A Low Cost All Solid-State FM Stereo Multiplex System," I, 1.

Chapnick, Newton N. and Fagin, Leonard L.; Barnes Engineering Co.; "Infrared Thermography for Diagnostic Evaluation of Electronic Modules," II, 1.

DeToro, N. and Donovan, D. T.; General Electric Co.; "A Multiple Speed Clutch for Automatic Washers," I, 4.

DeWerth, D. W. and Harwood, K. J.; American Gas Association, Inc., Laboratories; "Heat Focusing Methods for Infra-Red Energy from Gas-Fired Burners," I, 4.

Dibble, David B. See Wood, Russell E.

Donovan, D. T. See DeToro, N.

Eckardt, R. W. See Bratvold, Harlan R.

Fagin, Leonard L. See Chapnick, Newton N.

Farquhar, Harold F.; The Lau Blower Co.; "Cabinet Enclosures—Influence on Blower Performance," I, 3.

Gebel, Irving; Controls Company of America; "Air Trap Design for Pressure Switch Liquid Level Control," II, 1.

Graneri, George J.; American Radiator and Standard Sanitary Corp.; "Solid-State Blower Control," I, 2 and "Direct Burner Ignition System," II, 2.

Grant, Edward and Roszyk, Leon M.; Sunbeam Corp.; "Design Considerations for Permanent Magnet Motors," II, 4.

Harwood, K. J. See DeWerth, D. W.

Heilweier, Dr. George H.; RCA Laboratories; "Dynamic Scattering in Liquid Crystals," II, 4.

Henke, Professor R. W.; Fluid Power Society; "Fluidics and Its Potential in Appliance Design," II, 3.

Hoke, L., Lancaster, W., Petrosky, R. and Waring, J.; Philco-Ford Corp.; "Monolithic Circuits for Radio Receivers," I, 4.

Hood, Robert B.; Fairchild Semiconductor; "Combination Timer and Speed Control for a Food Blender," I, 3 and "Appliance Electronic Sequence Control," II, 3.

Knisely, Robert C.; Owens-Illinois Technical Center; "Crystallized Glasses for Appliance Applications," I, 3.

Lancaster, W. See Hoke, L.

Liebermann, John; Ranco Inc. and McLean, John A.; Westinghouse Electric Corp.; "Single-Evaporator Systems for Refrigerator-Freezers," II, 2.

Lorenz, Jerome L. and Patterson, R. K.; Ranco Inc.; "Demand Defrost by Electronics," I, 1.

Marn, William L.; American Gas Association, Inc.; "Reduction of Heat Radiation from Commercial Heavy Duty Ranges," I, 2.

McCullough, John V.; Litton Industries; "Basic Design of Magnetron-Powered Microwave Ovens," I, 1.

McLean, John A. See Liebermann, John.

Morgan, John W. and Richmond, James W.; Sunbeam Corp.; "The Electric Clock is Up-Dated," I, 1.

Mullin, William H.; Philco-Ford Corp.; "Capacity Modulation for Room Air Conditioners," II, 3.

Patterson, R. K. See Lorenz, Jerome L.

Perl, Richard L. See Vonderhaar, A. W.

SUBJECT INDEX

"A Low Cost All Solid-State FM Stereo Multiplex System," I, 1 (24)

"A Multiple Speed Clutch for Automatic Washers," I, 4 (24)

"Air Trap Design for Pressure Switch Liquid Level Control," II, 1 (30)

"Appliance Electronic Sequence Control," II, 3 (18)

"Basic Design of Magnetron-Powered Microwave Ovens," I, 3 (35)

"Cabinet Enclosures—Influence on Blower Performance," I, 3 (34)

"Capacity Modulation for Room Air Conditioners," II, 3 (28)

Central Air Conditioning, I, 2 (24, 32 & 36); I, 3 (18 & 34); I, 4 (28); II, 1 (19); II, 2 (32); II, 3 (18 & 32)

"Combination Timer and Speed Control for a Food Blender," I, 3 (38)

Components, Electronic I, 1 (20, 24 & 35); I, 2 (24, 32 & 36); I, 3 (18 & 28); I, 4 (32); II, 1 (23); II, 2 (32 & 37); II, 3 (18); II, 4 (21 & 44)

Components, Electro-Mechanical I, 1 (28); II, 3 (21); II, 4 (44)

Components, Mechanical II, 3 (32)

Control Systems I, 1 (20); I, 2 (18, 24, 32 & 36); I, 3 (18 & 28); I, 4 (24 & 28); II, 1 (19, 23 & 30); II, 2 (21); II, 3 (18, 28 & 32); II, 4 (44)

"Cross Modulation Problems in Solid-State VHF-TV Tuners," II, 2 (37)

"Crystallized Glasses for Appliance Applications," I, 3 (22)

"Demand Defrost by Electronics," I, 1 (20)

"Design Considerations for Permanent Magnet Motors," II, 4 (27)

Design Techniques I, 1 (24); I, 2 (18, 28 & 32); I, 3 (18, 28 & 34); I, 4 (18, 28 & 32); II, 1 (19, 23, 30 & 34); II, 2 (32 & 37); II, 3 (18, 28 & 32); II, 4 (27, 38 & 44)

"Direct Burner Ignition System," II, 2 (32)

Dishwashers I, 2 (18); I, 3 (18); II, 1 (23 & 30); II, 3 (18 & 32); II, 4 (27)

"Dynamic Scattering in Liquid Crystals," II, 4 (21)

"Economics and Technology Trends for European Refrigerators and Freezers," II, 4 (38)

Electric Heating I, 2 (24); I, 3 (18 & 34); I, 4 (28); II, 1 (23)

Electric Housewares I, 1 (28); I, 3 (22 & 25); II, 1 (23); II, 3 (32); II, 4 (21, 27 & 44)

"Fluidics and Its Potential in Appliance Design," II, 3 (32)

Freezers I, 1 (18); II, 1 (23); II, 2 (21); II, 4 (38)

Gas Heating I, 2 (24); I, 3 (18 & 34); I, 4 (28); II, 1 (23); II, 2 (32)

"Gas Pyrolytic Ovens," II, 2 (27)

"Heat Focusing Methods for Infra-Red Energy from Gas-Fired Burners," I, 4 (18)

Home Laundry I, 2 (18); I, 3 (18); I, 4 (24); II, 1 (19, 23 & 30); II, 2 (32); II, 3 (18 & 32); II, 4 (27)

"Infrared Thermography for Diagnostic Evaluation of Electronic Modules," II, 1 (34)

Materials I, 3 (32); I, 4 (21, 27 & 34); II, 4 (21 & 44)

"Monolithic Circuits for Radio Receivers," I, 4 (32)

"Off-Balance Spin Stability Analysis of an Automatic Washer," II, 1 (19)

Phonographs I, 1 (24); II, 1 (23); II, 4 (44)

"Pneumatic Control System for Appliances," I, 2 (18)

"Portable Power Systems for Today and Tomorrow," II, 4 (44)

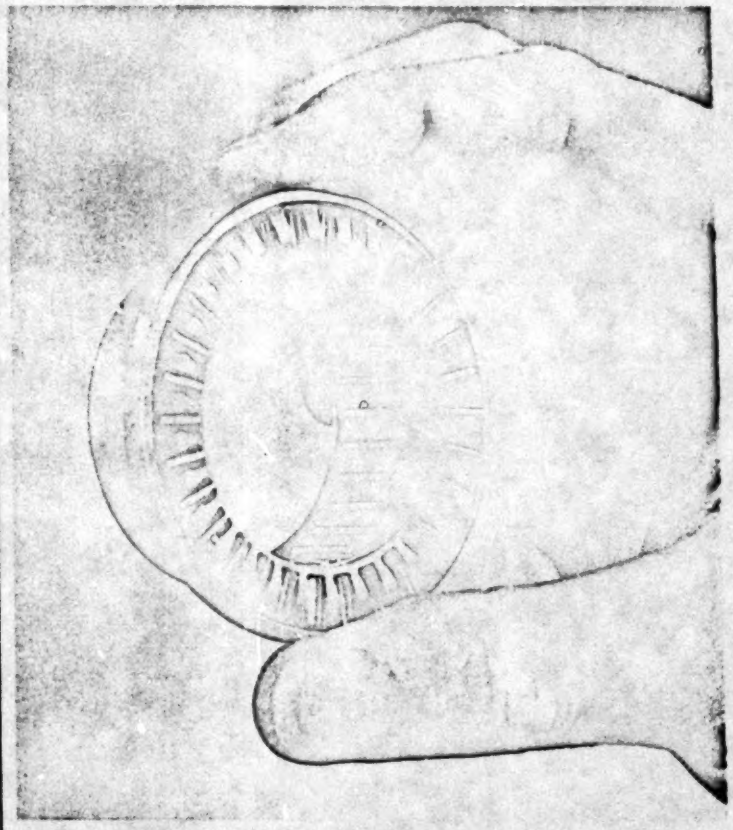
"Predict Direct Drive Blower Performance by Superimposing Motor Data," I, 4 (28)

Petrosky, R. See Hoke, L.
Rice, Harold W.; Robertshaw Controls Co.; "Pneumatic Control System for Appliances," I, 2.
Richmond, James W. See Morgan, John W.
Roszyk, Leon M. See Grant, Edward.
Smith, James L.; The Lau Blower Co.; "Predict Direct Drive Blower Performance by Superimposing Motor Data," I, 4.
Snodgrass, Thomas J.; Value Standards, Inc.; "Value Analysis for Better Products and Better Profits," II, 3.
Sur, Larry M.; Whirlpool Corp.; "Off-Balance Spin Stability Analysis of an Automatic Washer," II, 1.
von Cube, Dr. H. L.; Consulting Engineer, Germany; "Economics and Technology Trends for European Refrigerators and Freezers," II, 4.
Vanderhaar, A. W. and Perl, Richard L.; The Tappan Co.; "Gas Pyrolytic Ovens," II, 2.
Waring, J. See Hoke, L.
Weaver, Sam M.; Texas Instruments Inc., Semiconductor-Components Div.; "Cross-Modulation Problems in Solid-State VHF-TV Tuners," II, 2.
Wood, Russell E. and Dibble, David B.; Carrier Air Conditioning Co.; "Solid State Controller for Air Cooled Air Conditioning Units," I, 2.
Zinder, David A.; Motorola Semiconductor Products Inc.; "Suppressing RFI in Thyristor Circuits," I, 3 and "Thyristor Power Control Fundamentals," II, 1

Radios I, 4 (32); II, 1 (23); II, 4 (44)
Range/Ovens I, 1 (35); I, 2 (28 & 32); I, 3 (18 & 22); I, 4 (18); II, 1 (23 & 30); II, 2 (27 & 32)
"Reduction of Heat Radiation from Commercial Heavy Duty Ranges," I, 2 (28)
Refrigerators I, 1 (18); II, 1 (23); II, 2 (21); II, 4 (38)
Room Air Conditioning I, 2 (32 & 36); I, 3 (18 & 34); I, 4 (28)
"Safety Considerations in Designing Self-Cleaning Ovens," I, 2, (32)
"Single Evaporator Systems for Refrigerator-Freezers," II, 2 (21)
"Solid-State Blower Control," I, 2 (24)
"Solid State Controller for Air-Cooled Air Conditioning Units," I, 2 (36)
"Suppressing RFI in Thyristor Circuits," I, 3 (18)
Tape Recorders II, 1 (23); II, 4 (44)
Television II, 1 (23); II, 2 (37); II, 4 (21 & 44)
"The Electric Clock is Up-Dated," I, 1 (28)
"Thyristor Power Control Fundamentals," II, 1 (23)
"Value Analysis for Better Products and Better Profits," II, 3 (23)
Vending Machines II, 3 (18)

Radial and axial loading?
New RAX 700 does both jobs better

RAX 700 is the one needle bearing that supports both high radial and axial loads simultaneously . . . in less space . . . and with surprising economy. □ This combined bearing is a single, easy-to-install assembly. It's the only combined bearing with precision needle rollers in both the radial and thrust sections. □ Compact, unitized construction minimizes space requirements and facilitates handling and assembly. Independent radial and self-centering thrust bearings assure optimum rotational precision. There's no interaction between the elements. Highly efficient lubrication characteristics and reduced needle-cage contact keep friction low. Available in a wide range of sizes—with or without matching thrust plate and inner ring. □ If your application requires both radial and thrust loading, write for Catalog 682. It shows how RAX 700 high performance, low cost bearings do both jobs better. Garlock-Nadella Inc., 16 Fellowship Road, Cherry Hill, N. J. 08034. (609) 424-2500.



years ahead in plastic and needle-roller bearing technology

Garlock-Nadella INC.